GrowerFacts

PanAmerican Seed®

Cosmos Mandarin

(Cosmos sulphureus)

Annuals Culture (revised 12/12/24)

Plug crop time: 3 to 4 weeks
Transplant to finish: 5 to 7 weeks

- Mandarin has a deeper orange colour, a better habit and is more uniform compared to competing varieties.
- Slightly more compact variety has a more mounded shape.

General Information

Exposure	Bloom Season	Height	Spread	Spacing
Partial Sun, Sun	Spring, Late Spring, Summer, Autumn	10-12 in. (25-30 cm)	6-8 in. (15-20 cm)	8-10 in. (20-25 cm)

Germination

Seed Form	Recommended Plug Size	Seeds/Cell	Plug Crop Weeks	Days from 50% to maximum germination	Initial Media pH/EC (1:2)	Cover Seed
RAW	288	1	3-4	3-4	5.7-5.9 pH 0.3-0.5 mmhos/cm	Yes

Plug Production

	Stage 1	Stage 2	Stage 3	Stage 4
Moisture	Level 4	Level 3-4	Level 2-3	Level 2-3
Temperature	61-65°F (16-18°C)	61-65°F (16-18°C)	61-65°F (16-18°C)	57-60°F (14-16°C)
Light	Optional			
Fertiliser		Less than 100 ppm N (Less than 0.7 EC)	100 to 175 ppm N (0.7 to 1.2 EC)	100 to 175 ppm N (0.7 to 1.2 EC)

Growing on to Finish

Growing on Temperature	Target Media pH/EC (1:2)	Fertiliser	Daylength
(day) 60-64°F (16-18°C) **(night)** 57-60°F (14-16°C)	5.8-6.2 pH 1.2-1.5 mmhos/cm	100 to 175 ppm N (0.7 to 1.2 EC)	Facultative Short Day

Crop Scheduling

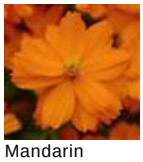
Container Size	Plugs/Pot	Crop Time	Season	PGR
5"/6"/1 Gallon/15 cm	1 (ppp)	5-6 (weeks)	Spring	-
5"/6"/1 Gallon/15 cm	1 (ppp)	6-7 (weeks)	Summer	-

Finishing Key Tips

Don't grow too wet. This can cause root rot and black foliage. Stretching of plants can be avoided by using damonizide and chlormequat.

NOTE: Growers should use the information presented here as guidelines only. PanAmerican Seed recommends that growers conduct a trial of products under their own conditions. Crop times will vary depending on the climate, location, time of year, and greenhouse environmental conditions. It is the responsibility of the grower to confirm the treatment is available in their region as well as read and follow all the current label directions relating to the products. Nothing herein shall be deemed a warranty or guaranty by PanAmerican Seed of any products listed herein. PanAmerican Seed's terms and conditions of sale shall apply to all products listed herein.

Variety Pictures


Mandarin


Mandarin

PanAmerican Seed Co.
622 Town Road,West Chicago, Illinois, USA, 60185
+1 800-231-7065 PanAmSeed.com

™ denotes a trademark of and ® denotes a registered trademark of Ball Horticultural Company in the US. It may also be registered in other countries.
©2026 Ball Horticultural Company